

**SELECT PESTICIDES REGISTERED FOR SEED TREATMENT OF FIELD CORN AND ASSOCIATED HUMAN HEALTH BENCHMARKS.<sup>1</sup>**

Type	FRAC <sup>2</sup> /IRAC <sup>3</sup>	Active Ingredient	Previously Analyzed? <sup>4</sup>	Previously Detected? <sup>4</sup>	cRfD <sup>5</sup> (mg/kg-day)	cHHBP <sup>6</sup> (µg/L)	Registrants (only for pesticides not previously analyzed)
Nematicide	IRAC 6	Abamectin	no	n/a	0.0004	3	Syngenta
Insecticide	IRAC 1B	Chlorpyrifos	✓	no (only lagoons & wet cake were tested)	0.00033	1.8	
	IRAC 4A	Clothianidin	✓	✓	0.098	630	
		Imidacloprid	✓	✓	0.057	360	
	IRAC 28	Thiamethoxam	✓	✓	0.012	77	
		Chlorantraniliprole	✓	✓	1.58	10,100	
Fungicide	FRAC 1	Carbendazim (Thiophanate-methyl)	✓	✓	0.025	160	
		Thiabendazole	✓	✓	0.033	210	
	FRAC 3	Desthioprothioconazole (Prothioconazole degradate)	✓	✓	n/a	n/a	
		Difenoconazole	✓	✓	0.01	60	
		Ipcaconazole	✓	✓	0.015	96	
		Metconazole	✓	✓	0.04	300	
		Propiconazole	✓	✓	0.1	600	
		Prothioconazole	✓	✓	0.01	60	
		Tebuconazole	✓	✓	0.029	190	
	FRAC 4	Metalaxyl (equal R and S enantiomers) or Mefenoxam (R enantiomer)	✓	✓	0.0741	474	
	FRAC 7	Carboxin	no	n/a	n/a	n/a	UPL NA
		Penflufen	no	n/a	0.38	2,400	Bayer
		Sedaxane	✓	✓	0.11	700	
	FRAC 11	Azoxystrobin	✓	✓	0.18	1,200	
		Fluxostrobin	✓	✓	0.015	96	
		Picoxystrobin	✓	✓	n/a	n/a	
		Pyraclostrobin	✓	✓	0.034	220	
		Trifloxystrobin	✓	✓	0.038	240	
	FRAC 12	Fludioxonil	no	n/a	0.03	200	Albaugh, Loveland, Nufarm, Syngenta, UPL NA
	FRAC 14	Tolclofos-methyl	no	n/a	n/a	n/a	Valent
	FRAC 22	Ethaboxam	✓	✓	0.055	350	
	FRAC M 03	Mancozeb	no	n/a	0.016	88	UPL NA
		Thiram	no	n/a	0.015	96	Bayer, Nu Farm, UPL NA
	FRAC M 04	Captan	no	n/a	0.13	830	Albaugh, Drexel

<sup>1</sup> Disclaimer - this table is not a comprehensive list of all pesticides registered for seed treatment of field corn since 2015.

<sup>2</sup> FRAC = Fungicide Resistance Action Committee Mode of Action classification - <https://www.frac.info/>

<sup>3</sup> IRAC = Insecticide Resistance Action Committee Mode of Action classification - <https://irac-online.org/modes-of-action/>

<sup>4</sup> Matrices analyzed include groundwater, surface water, wet cake, corn seed, soil, nectar, honey, pollen, and/or other plants.

<sup>5</sup> cRFD = Chronic Reference Dose - Only provided if listed in <https://www.epa.gov/pesticides/updated-list-human-health-benchmarks-pesticides-drinking-water-available>

<sup>6</sup> cHHBP = Chronic Human Health Benchmarks for Pesticides - Only provided if listed in: <https://www.epa.gov/pesticides/updated-list-human-health-benchmarks-pesticides-drinking-water-available>

Gray indicates a compound is registered for seed treatment of corn, but no samples have been analyzed.